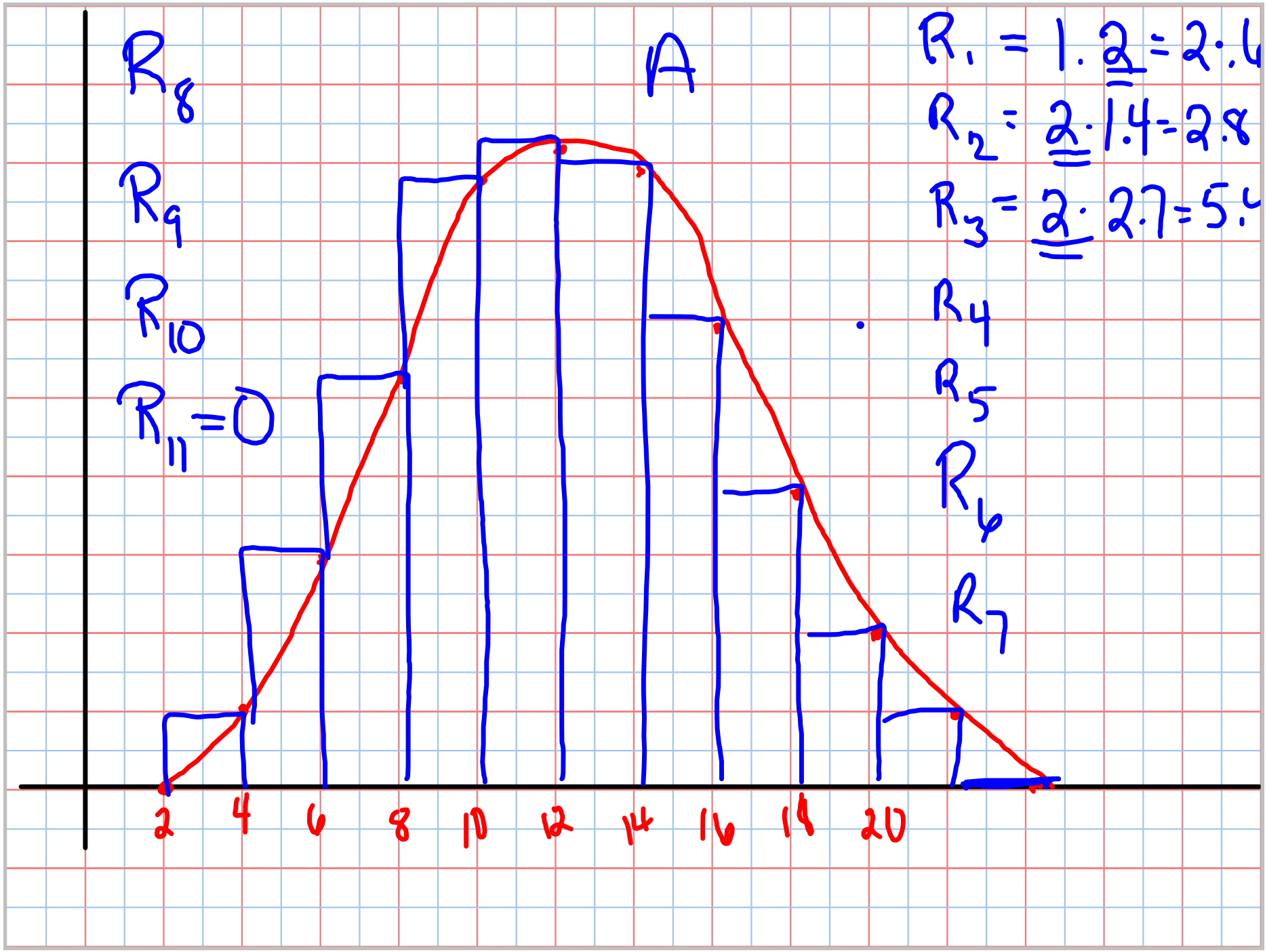
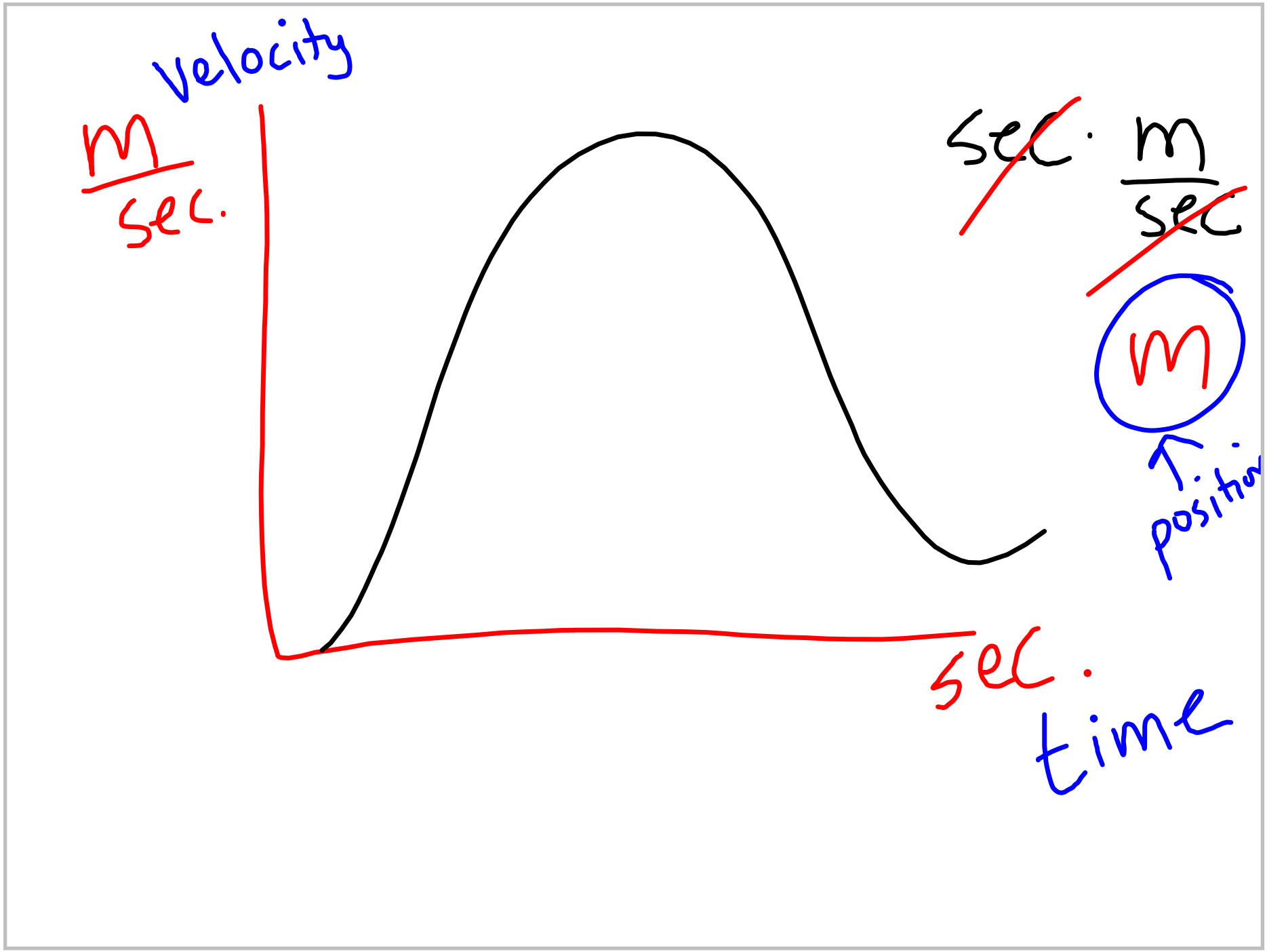

R_8
R_9
R_{10}
$R_{11}=0$
A
$R_1 = 1.2 = 2.4$
$R_2 = 2.1.4 = 2.8$
$R_3 = 2.2.7 = 5.4$
R_4
R_5
R_6
R_7
2
4
6
8
10
12
14
16
18
20

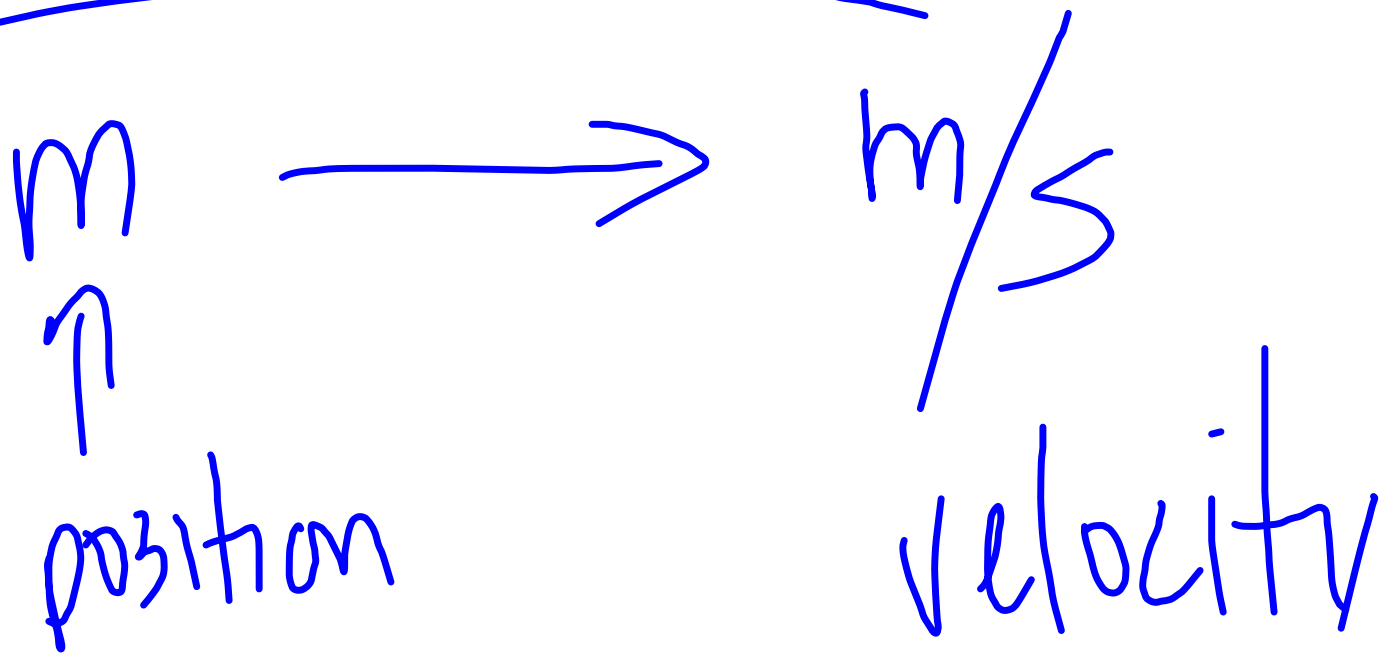
$$A = 44.8 \ \frac{mg}{L} \cdot sec$$

$$\frac{5\ mg}{44.8\ \frac{mg \cdot sec}{L}} \cdot \frac{60\ sec}{min} = 6.7\ L/min$$

Title: Mar 19-11:21 AM (2 of 12)


Velocity
m/sec.
sec. · m/sec
m
positive
sec.
time

Derivatives



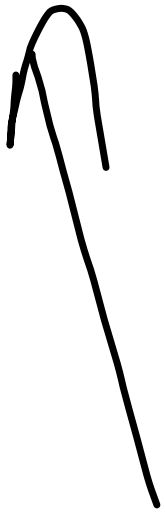
$$\lim_{n\to\infty} \sum_{n=1}^{\infty} \text{base} \cdot f(x) =$$

adding an infinite number of rectangles

to find the area under the curve

$$\int_{\text{lowerbound}}^{\text{upper bound}} f(x)\,dx$$

Integration



Area under a curve

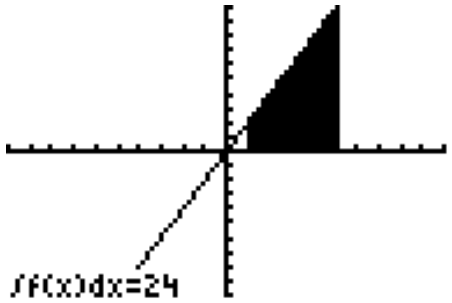
$$\int_1^5 2x\,dx = 24$$

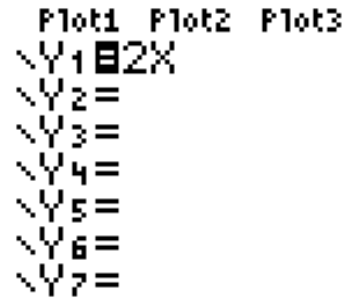
Trapezoid

$A = \frac{1}{2}(b_1 + b_2)h$

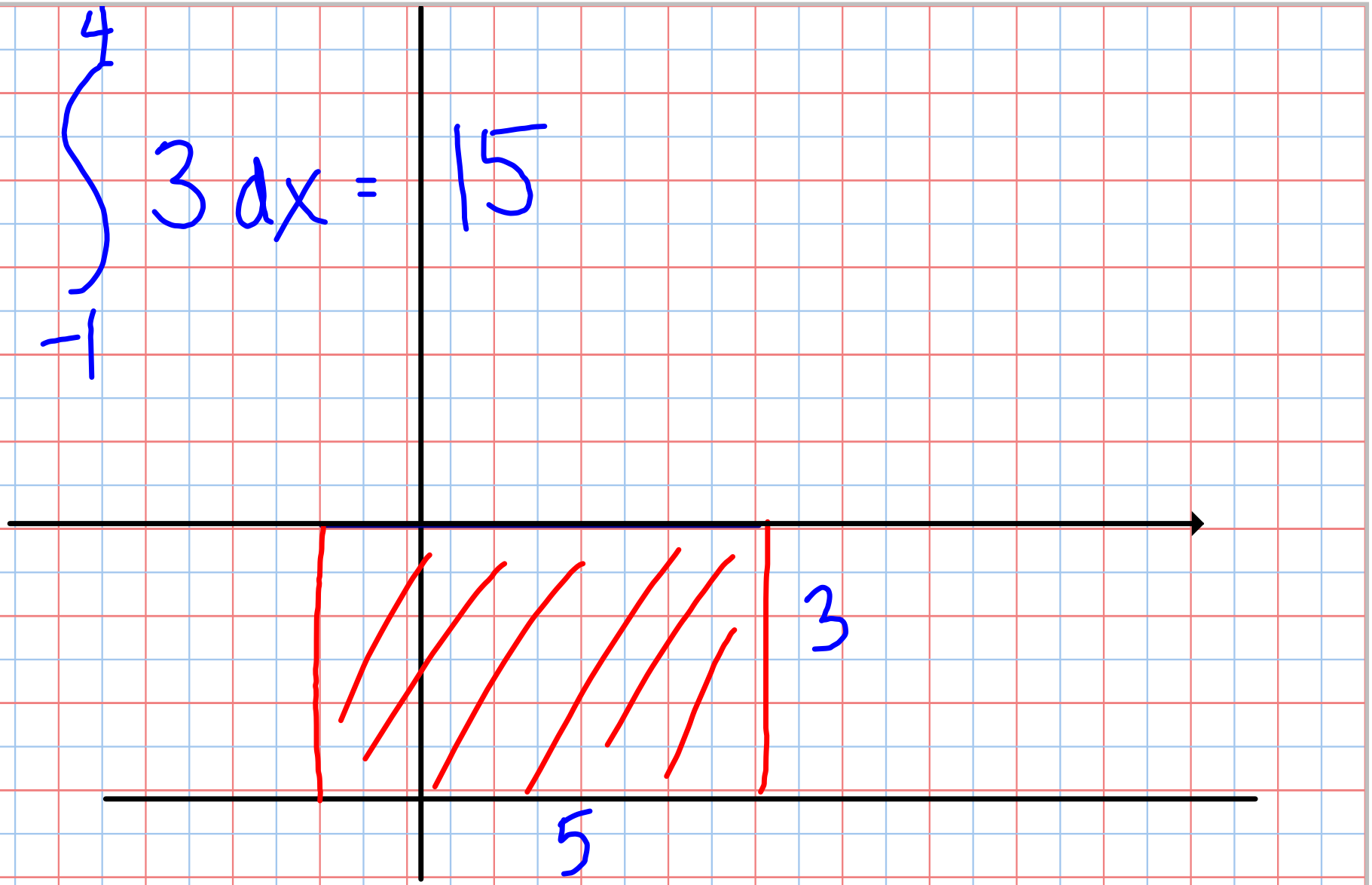
$A = \frac{1}{2}(2 + 10)4$

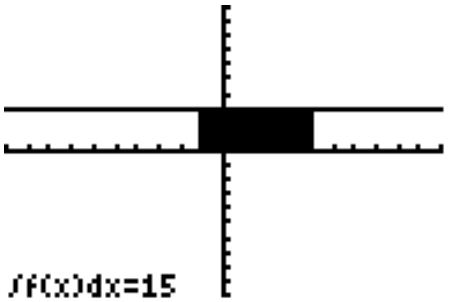
$A = 24$ sq. unit


∫f(x)dx=24


Plot1 Plot2 Plot3
\Y1■2X
\Y2=
\Y3=
\Y4=
\Y5=
\Y6=
\Y7=

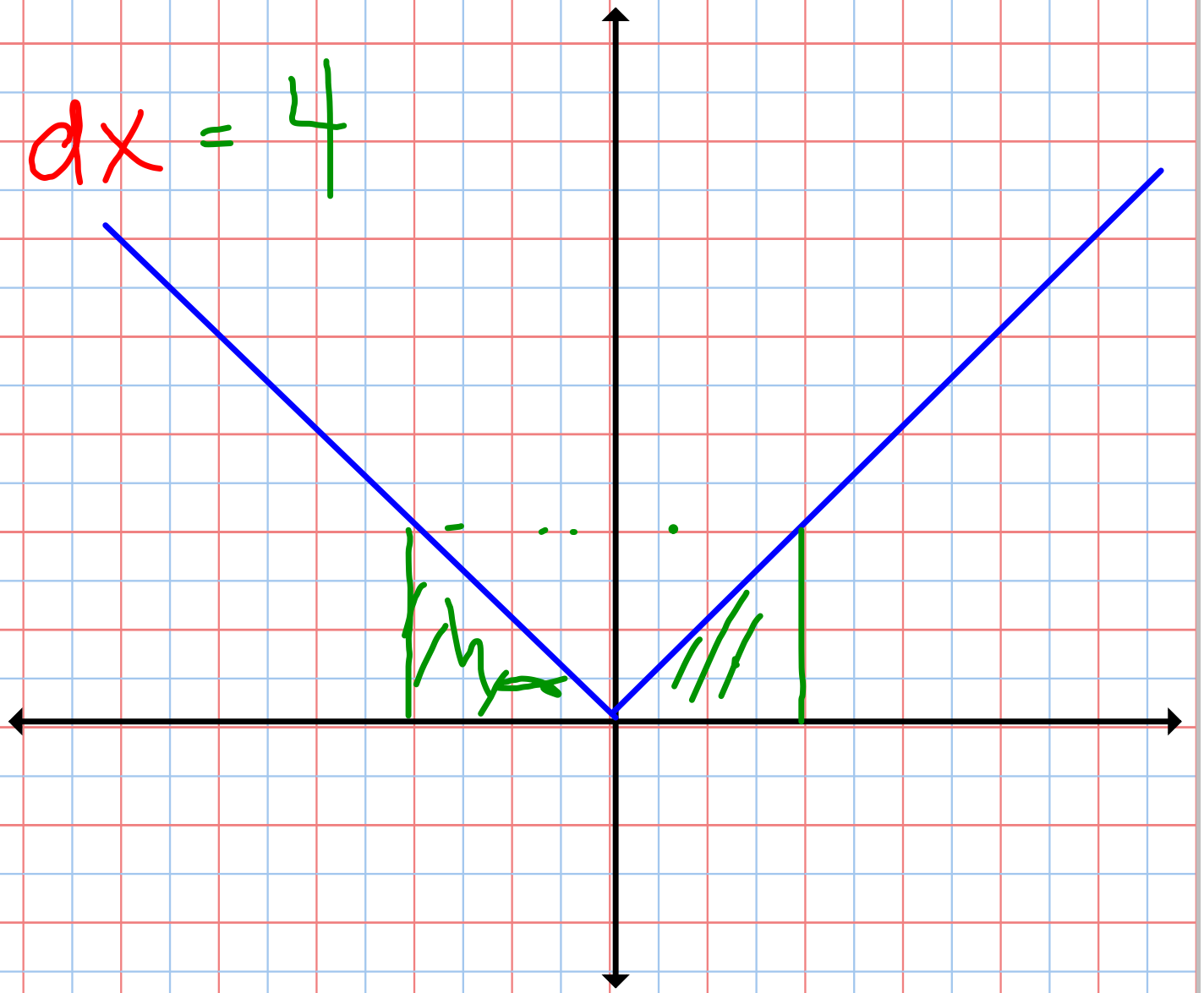
$$\int_{-1}^{4} 3\,dx = 15$$





Plot1 Plot2 Plot3
\Y1■3
\Y2=
\Y3=
\Y4=
\Y5=
\Y6=
\Y7=

$$\int_{-2}^{2} |x|\,dx = 4$$



P. 267

13-22 finding areas under curves